

10146000 SALT CREEK AT NEPHI, UT

LOCATION.--Lat 39°42'47", long 111°48'13", in SE¹/₄SW¹/₄NE¹/₄, sec. 3, T. 13 S., R. 1 E., Juab County, Hydrologic Unit 16020201, on right bank 1.7 mi east of Nephi.

DRAINAGE AREA.--95.6 mi².

PERIOD OF RECORD.--December 1950 to September 1980, August 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,280.00 ft above sea level. December 2, 1950 to November 7, 1952, at a site 0.5 mi downstream at datum 31.96 ft lower. November 7, 1952 to November 10, 1971, at a site 0.5 mi downstream at datum 30.53 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Nephi City powerplant diversion dam about 5.0 mi above gage since December 1984.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 832 ft³/s, Aug 1, 1968, gage height, 6.43 ft from floodmarks; minimum, 1.1 ft³/s, Dec 13, 1951 and Dec 11, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37 ft³/s, May 18, gage height, 1.98 ft; minimum daily discharge, 4.6 ft³/s, Jan 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	e7.1	e6.5	5.6	5.2	5.5	7.1	26	32	7.6	7.6	6.0
2	7.3	6.4	e6.3	5.6	5.4	5.4	7.6	27	32	7.5	7.4	5.8
3	6.9	6.3	e6.1	5.4	5.5	5.5	7.6	22	31	7.3	7.3	5.6
4	6.3	6.3	e6.0	5.7	5.4	5.4	7.6	17	30	7.5	7.3	5.2
5	6.2	6.3	e5.9	5.7	5.3	5.4	7.8	14	28	7.6	7.0	5.3
6	6.0	6.3	5.2	5.7	5.5	5.5	7.7	13	26	7.6	6.6	5.2
7	6.0	6.3	5.2	5.6	5.5	5.5	7.9	12	25	7.6	6.4	5.2
8	6.2	e6.8	5.3	5.5	5.3	5.5	8.3	12	22	7.6	6.2	5.6
9	6.3	7.2	5.2	5.5	5.2	5.5	8.6	13	13	7.7	6.0	6.0
10	e7.4	7.2	5.4	5.5	5.4	5.6	8.5	21	11	7.7	6.0	5.9
11	9.5	6.8	5.5	5.4	5.5	5.5	8.4	27	9.7	7.6	6.0	5.6
12	10	7.0	5.5	5.5	5.5	5.5	8.2	27	9.3	8.0	6.0	5.5
13	10	7.0	5.5	5.5	5.5	5.5	7.6	29	9.4	7.8	6.5	6.0
14	10	6.9	5.5	5.5	5.5	5.3	7.6	27	9.5	8.0	7.0	6.0
15	10	e7.0	5.5	5.5	5.5	5.3	7.4	29	9.5	8.4	7.1	6.2
16	10	e7.1	5.4	5.4	5.5	5.5	7.3	27	9.1	8.2	6.4	4.9
17	e7.7	e7.1	5.3	4.7	5.5	5.5	7.3	31	9.1	7.9	6.3	4.9
18	6.2	e8.0	4.8	4.6	5.5	5.3	7.3	32	9.1	7.8	6.3	5.2
19	5.8	e7.6	5.0	5.0	5.5	5.2	7.8	35	9.1	7.6	6.3	5.5
20	5.7	e7.3	5.6	5.5	5.3	5.2	9.1	32	8.9	7.6	6.3	5.1
21	6.5	e7.0	5.5	5.3	5.6	5.2	9.5	29	8.2	7.6	6.3	4.9
22	5.8	e6.9	5.5	5.2	5.6	5.2	11	25	7.8	7.6	7.0	4.8
23	5.7	e6.9	5.5	5.2	5.7	5.2	9.4	23	7.6	7.7	6.8	4.7
24	e5.7	e6.9	5.5	5.2	5.7	5.2	8.4	22	7.6	8.2	6.6	4.7
25	e5.7	e6.7	5.5	5.4	5.5	5.2	8.3	23	7.6	8.4	6.3	4.8
26	5.7	e6.6	5.4	5.4	5.5	5.2	8.7	23	7.7	8.4	6.4	4.9
27	5.7	e6.6	5.4	5.5	5.5	5.0	11	25	7.7	8.7	6.1	5.0
28	5.9	e6.6	5.7	5.5	5.5	4.9	15	22	7.6	8.7	6.0	5.5
29	5.7	e6.6	5.6	5.3	---	5.0	22	18	7.6	8.3	6.0	5.5
30	7.2	e6.6	5.5	5.3	---	5.2	24	21	7.6	7.9	6.0	5.5
31	e6.9	---	5.6	5.1	---	6.5	---	32	---	7.6	6.0	---
TOTAL	217.3	205.4	171.4	166.8	153.1	166.4	284.0	736	419.7	243.7	201.5	161.0
MEAN	7.01	6.85	5.53	5.38	5.47	5.37	9.47	23.7	14.0	7.86	6.50	5.37
MAX	10	8.0	6.5	5.7	5.7	6.5	24	35	32	8.7	7.6	6.2
MIN	5.7	6.3	4.8	4.6	5.2	4.9	7.1	12	7.6	7.3	6.0	4.7
AC-FT	431	407	340	331	304	330	563	1460	832	483	400	319

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-80, 1993-2001, BY WATER YEAR (WY)

MEAN	10.7	10.2	9.57	9.46	10.4	14.4	43.0	81.2	59.5	27.1	15.2	12.3
MAX	26.0	19.7	16.4	17.0	18.6	30.9	172	276	132	70.8	50.9	32.9
(WY)	1953	1953	1953	1970	1971	1997	1952	1952	1952	1952	1952	1952
MIN	4.57	5.19	3.66	4.45	4.73	5.37	6.98	12.5	10.1	6.89	5.91	5.37
(WY)	1978	1978	1994	1994	1995	2001	1961	1977	1994	1994	1993	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1951-80, 1993-2001

ANNUAL TOTAL	3580.8	3126.3										
ANNUAL MEAN	9.78	8.57	25.5									
HIGHEST ANNUAL MEAN			66.1									
LOWEST ANNUAL MEAN			8.11									
HIGHEST DAILY MEAN	50	May 25	35	May 19								
LOWEST DAILY MEAN	4.8	Dec 18	4.6	Jan 18	1.7							
ANNUAL SEVEN-DAY MINIMUM	5.3	Dec 13	4.8	Sep 21	3.0							
ANNUAL RUNOFF (AC-FT)	7100		6200		18450							
10 PERCENT EXCEEDS	16		16		64							
50 PERCENT EXCEEDS	7.3		6.3		13							
90 PERCENT EXCEEDS	5.8		5.2		6.8							

e Estimated